

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: RTSP-0240
Inventors: Monia and Cowser
Serial No.: Not Yet Assigned
Filing Date: Herewith
Examiner: Not Yet Assigned
Group Art Unit: Not Yet Assigned
Title: Antisense Modulation of Liver Glycogen
Phosphorylase Expression

#2 I.D.S

"Express Mail" Label No. EV017478055US
Date of Deposit December 28, 2001

I hereby certify that this paper is being deposited
with the United States Postal Service "Express Mail
Post Office to Addressee" service under 37 CFR 1.10
on the date indicated above and is addressed to the
Assistant Commissioner for Patents, Box PCT,
Washington, D.C. 20231.

By Jane Massey Licata
Typed Name: Jane Massey Licata, Reg. No. 32,257

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R.
§§1.97-1.98, information relating to the above-identified
application is hereby disclosed. Inclusion of information in
this statement is not to be construed as an admission that this
information is material as that term is defined in 37 C.F.R.
§1.56(b).

(XX) In accordance with §1.97(b), since this information
Disclosure Statement is being filed either within three

months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- () In accordance with §1.97(b), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.11, therefore:
 - () Certification in Accordance with §1.97(e) is set forth below; or
 - () The fee of \$180.00 as set forth in §1.17(p) is attached.
- () In accordance with §1.97(a), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.111 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(i)(1).
- () Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

(XX) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/357,071, filed July 19, 1999, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

() The relevance of the listed references in a foreign language is as stated in the specification at pages 88.

(XX) All listed references are in the English language.

Respectfully submitted,

Jane Massey Licata

Jane Massey Licata
Registration No. 32,257

Date: December 28, 2001

Licata & Tyrrell P.C.
66 E. Main Street
Marlton, New Jersey 08053

(856) 810-1513

Sheet 01 of 03

Form PTO-1449 Modified		Docket No. RTSP-0240	Serial No. Not Yet Assigned
List of Patents and Publications Cited by Application (Use several sheets if necessary)		Applicant Monia and Cowsert	
		Filing Date Herewith	Group Not Yet Assigned
U.S. Department of Commerce Patent and Trademark Office			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AA	Burwinkel et al., Mutations in the liver glycogen phosphorylase gene (PYGL) underlying glycogenosis type VI, Am. J. Hum. Genet., 1998, 62:785-791		
AB	Chang et al., Identification of a mutation in liver glycogen phosphorylase in glycogen storage disease type VI, Hum. Mol. Genet., 1998, 7:865-870		
AC	Hoover et al., Indole-2-carboxamide inhibitors of human liver glycogen phosphorylase, J. Med. Chem., 1998, 41:2934-2938		
AD	Kasvinsky et al., Regulation of the dephosphorylation of glycogen phosphorylase a and synthase b by glucose and caffeine in isolated hepatocytes, Can. J. Biochem., 1981, 59:387-395		
AE	Kasvinsky et al., The regulation of glycogen phosphorylase alpha by nucleotide derivatives. Kinetic and x-ray crystallographic studies, J. Biol. Chem., 1978, 253:3343-3351		
AF	Kasvinsky et al., Synergistic regulation of phosphorylase a by glucose and caffeine, J. Biol. Chem., 1978, 253:9102-9106		
AG	Keppens et al., Regulation of glycogen phosphorylase activity in isolated human hepatocytes, Hepatology, 1993, 17:610-614		
AH	Martin et al., Discovery of a human liver glycogen phosphorylase inhibitor that lowers blood glucose in vivo, Proc. Natl. Acad. Sci. U. S. A., 1998, 95:1776-1781		
AI	Newgard et al., The polymorphic locus for glycogen storage disease VI (liver glycogen phosphorylase) maps to chromosome 14, Am. J. Hum. Genet., 1987, 40:351-364		
AJ	Newgard et al., The family of glycogen phosphorylases: structure and function, Crit. Rev. Biochem. Mol. Biol., 1989, 24:69-99		
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified List of Patents and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce		Docket No. RTSP-0240	Serial # 01/019470 Not Yet Assigned
		Applicant Monia and Cowser	
		Filing Date Herewith	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AK	Newgard et al., "Sequence analysis of the cDNA encoding human liver glycogen phosphorylase reveals tissue-specific function usage", <i>Proc. Natl. Acad. Sci. USA</i> 1986 83:8132-8136	
	AL	Sprang et al., "Structural changes in glycogen phosphorylase induced by phosphorylation", <i>Nature</i> 1988 336:215-221	
	AM	Branch A.D., "A good antisense molecule is hard to find", <i>TIBS</i> 23 1998 45-50	
	AN	Crocke S.T., Basic Principles of Antisense Therapeutics Chapter 1	
	AO	Milner et al., "Selecting effective antisense reagents on combinatorial oligonucleotide arrays", <i>Nature Biotechnology</i> 1997 15:537-541	
	AP	Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> 1990 90:4:543-584	
EXAMINER		DATE CONSIDERED	

Sheet 03 of 03

Form PTO-1449 Modified List of Patents and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. RTSP-0240	Serial No. Not Yet Assigned
	Applicant Monia and Cowsert	
	Filing Date Herewith	Group Not Yet Assigned

U. S. PATENT DOCUMENTS

Examiner		Document	Date	Name	Class	Subclass
	AA	6,043,091	3-28-00	Monia et al.	435	375

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	AB	WO 97/09040	3-13-97	PCT	x	
	AC	WO 95/24391	9-14-95	PCT	x	

EXAMINER	DATE CONSIDERED
----------	-----------------